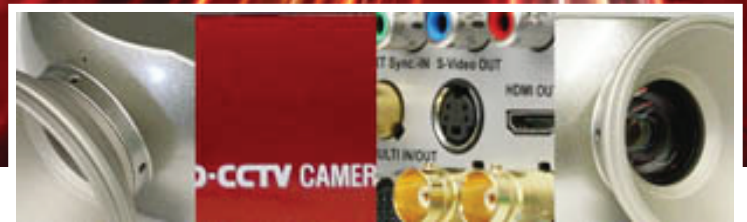




2.2M Full HD CCTV Camera with ACUTELOGIC Module



Full HD 1920 x 1080 30p Video Output

OVERVIEW

What is SDI?

Serial Digital Interface (SDI) refers to a family of video interfaces standardized by SMPTE. For example, ITU-R BT.656 and SMPTE 259M define digital video interfaces used for broadcast-grade video. A related standard, known as high-definition serial digital interface (HD-SDI), is standardized in SMPTE 292M; this provides a nominal data rate of 1.485 Gbit/s.

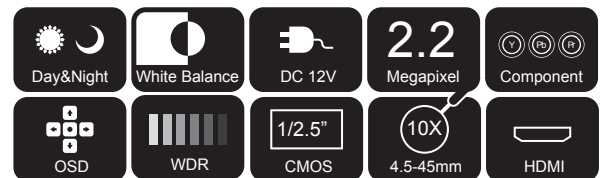
Digital : A digital system is a data technology that uses discrete (discontinuous) values. By contrast, non-digital (or analog) systems use a continuous range of values to represent information. Although digital representations are discrete, the information represented can be either discrete, such as numbers, letters or icons, or continuous, such as sounds, images, and other measurements of continuous systems.

Decompression : It uses the signal not MPEG of compression like IP camera, but decompression for transferring the signal. There's no aging or delay from the compression (min. 200m/sec). That's the reason why SDI is used in broadcasting field.

Serial : In telecommunication and computer science, serial communication is the process of sending data one bit at one time, sequentially, over a communication channel or computer bus. This is in contrast to parallel communication, where several bits are sent together, on a link with several parallel channels. Serial communication is used for all long-haul communication and most computer networks, where the cost of cable and synchronization difficulties make parallel communication impractical. At shorter distances, serial computer buses are becoming more common because of a tipping point where the disadvantages of parallel buses (clock skew, interconnect density) outweigh their advantage of simplicity (no need for serializer and deserializer (SERDES)). Improved technology to ensure signal integrity and to transmit and receive at a sufficiently high speed per lane have made serial links competitive. The migration from PCI to PCI Express is an example.

SPECIAL FEATURES

- Optical 10X Zoom Installed (4.5-45mm)
- A Variety of Resolutions Supported (1920 x 1080 30P/60i, 1280 x 720 60p)
- HD-SDI SMPTE 292M Standard
- Not Compressed Transmission for No Signal Delay
- Video Transmission up to 100M (5C-HFBT Coaxial Cable)
- Data Control by RS-232
- Easy Installation by Coaxial Cable



Side View

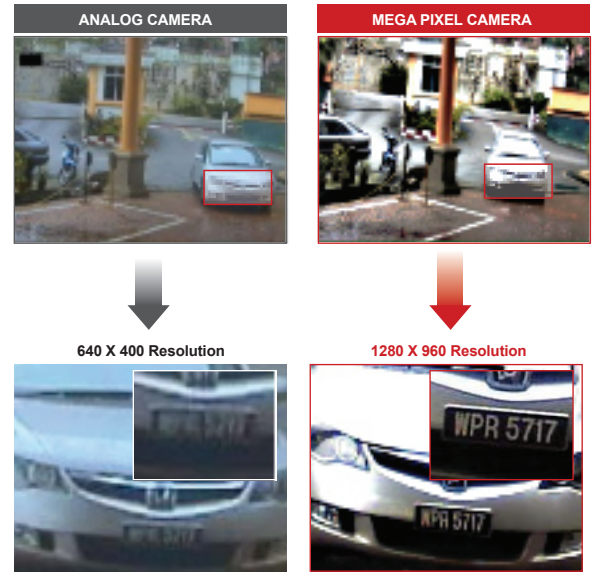
SPECIFICATIONS

CHDC-22SDHSC		
Image Sensor	1/2.5" Primary color CMOS	
Effective pixels	Aspect 16:9 Approximately 2.07M pixels	
Lens	1/3.6", F=4.5-45.0mm, F1.8-2.2	
Zoom	Optical 10X	
Minimum Lux.	6Lux (F1.8/50IRE/TV=1/30sec, 1920 x 1080 movie)	
Video Signal	1920 x 1080 30p / 1280 x 720 60p / 1280 x 720 30p	
Minimum Object Distance	Wide limit : 1cm / Tele limit : 100cm	
Focus	Auto / Manual	
Auto Slow Shutter	0.35Lux (Slow Shutter ON)	
Other Functions	BLC / AWB / Noise Reduction / Flicker Reduction / Image Stabilizer	
	Mirror (Vertical-Horizontal)	
Video Output (Video Signal of PE1005 / Output Resolution)	1920x1080 30p / 1920x1080 30p	
	1920x1080 30p / 1920x1080 60i	
	1280x720 30p / 1280x720 60p	
	1280x720 60p / 1280x720 60p	
Output Format / Interface	SDI	HD-SDI, SMPTE-292M / 75ohm BNC
	Composite	1V p-p, NTSC, PAL / 75ohm BNC
	S-Video	Y-C, NTSC, PAL / Mini-DIN
	HDMI	HDMI 1.3 / HDMI c-type
Analog Component	700mV p-p Y-Pb-Pr / 75ohm 3RCA	
Audio	Will be available	
Power Source	DC 12V (Voltage Tolerance : 8V~15V)	
Power Consumption	Max. 500mA / 12V DC	
Operating Temperature	32° ~ 113° F (0° ~ 45° C)	
Operating Humidity	20 ~ 80%	
Control	Remote Control / RS-232	
OSD	Support (16 Color) / OSD Menu / OSD Caption	
Weight	440±10g	
Dimension	2.65"(W) x 6.57"(L) x 2.58"(H)	

*Design and specifications are subject to change without notice

WHERE TO USE

ORION CHDC-22SDHSC HD CCTV Camera can be used in Bank, Casino, High Technology Store, Military, Police Station, Conference Room, Business and etc...

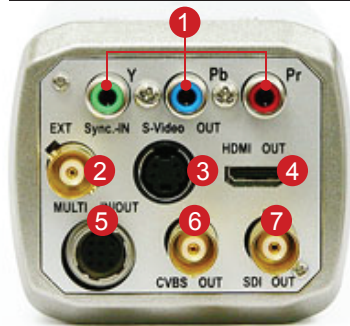
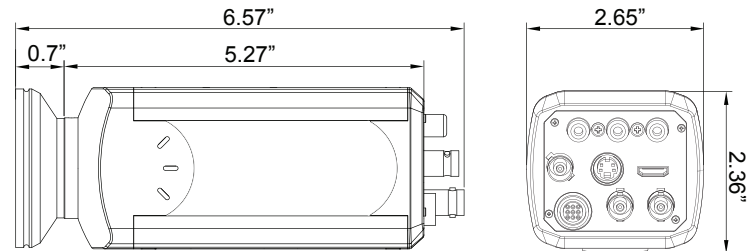


640 X 400 Resolution

1280 X 960 Resolution

The license plate number is clearly captured with high resolution

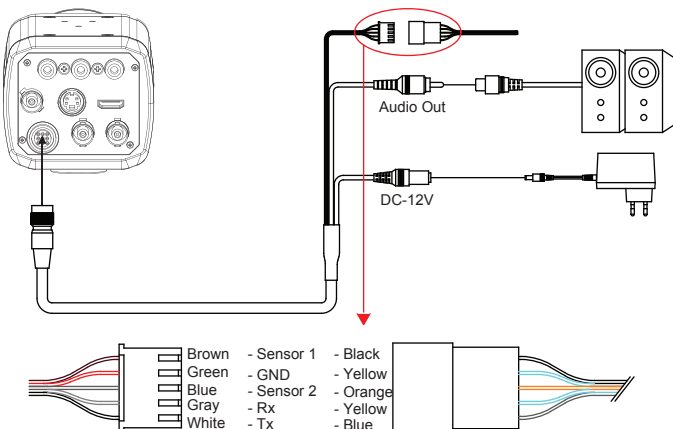
DIMENSIONS



CHDC-22SDHSC Rear View

Interface

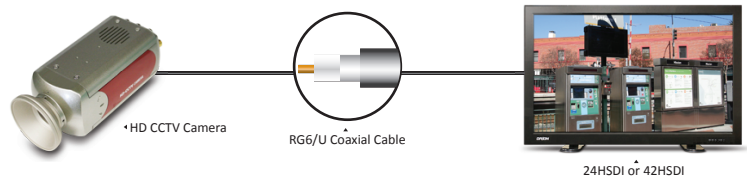
- COMPONENT:** AC Coupled Product Connected
- COMPOSITE:** GENLOCK Port (N/A)
- S-VIDEO:** Identical Video with CVBS
- HDMI:** Mini HDMI v1.3a C-type
- MULTI PORT:** Audio Out / DC 12V / Data Cable (RS-232)
- CVBS Out:** Composite Video
- SDI Out:** HD-SDI (SMPTE 292M)



SOLUTIONS

SOLUTION 1 HD CCTV Camera + HD Monitor

1 HD CCTV Camera (SDI out) + RG6/U Coaxial (Max 300ft) + 24HSDI or 42HSDI (SDI In)



SOLUTION 2 HD CCTV Camera + Digital Splitter + ORION RTC Series or 24HSDI or 42HSDI

Up to 4 HD Camera's (SDI out) + 4ch Digital Splitter + RTC Series Monitor (Composite, HDMI, DVI Input) or HSDI

